

# Product Datasheet

## UCH-L1/PGP9.5 Antibody (31A3) NB600-1160

Unit Size: 0.1 mg

Store at 4C.

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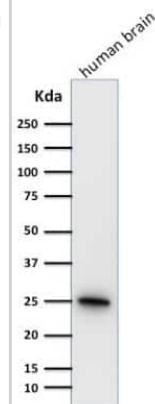


**NB600-1160****UCH-L1/PGP9.5 Antibody (31A3)**

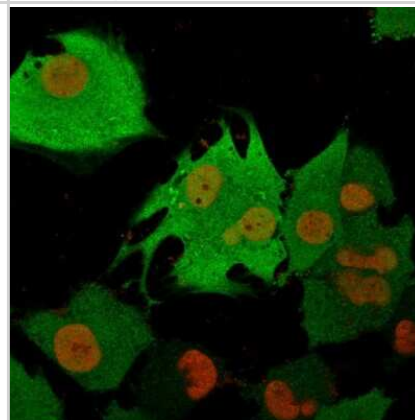
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	31A3
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Product Description</b>	
<b>Description</b>	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33130)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	7345
<b>Gene Symbol</b>	UCHL1
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Canine, Zebrafish
<b>Reactivity Notes</b>	Zebrafish reactivity reported in scientific literature (PMID: 30377377).
<b>Marker</b>	pan-Neuronal Marker
<b>Immunogen</b>	UCH-L1/PGP9.5 protein from brain (Uniprot: P09936)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Simple Western 10 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry 0.5-1.0ug/ml, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

## Images

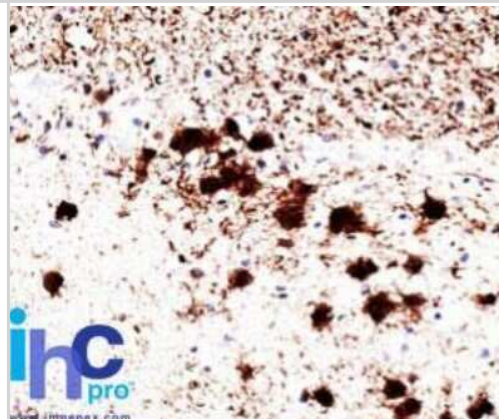
Western Blot: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - Western Blot Analysis of human brain tissue lysate using UCH-L1/PGP9.5 Antibody (31A3)



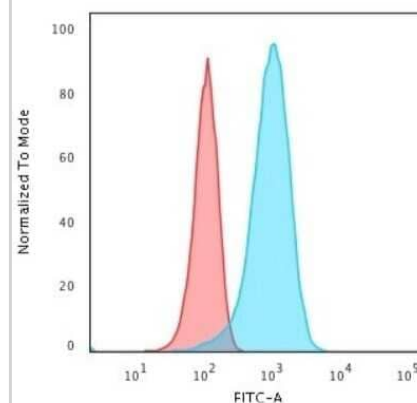
Immunocytochemistry/Immunofluorescence: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - Immunofluorescence Analysis of T98G cells labeling Pgp9.5 with UCH-L1/PGP9.5 Antibody (31A3) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Nucspot (Red)



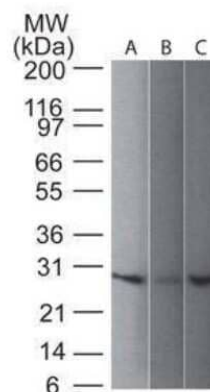
Immunohistochemistry-Paraffin: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - Formalin-fixed, paraffin-embedded human brain stained with UchL1 antibody (PGP9.5) (1:500), peroxidase-conjugate and DAB chromogen. Staining seen in cytoplasm, ER and membrane. Fixation in 95% ethanol/5% acetic acid for 2-3 hours prior to paraffin embedding is recommended. Specimens which have not been fixed in acetic acid/alcohol require pre-treatment with citrate buffer: for example, unmask of the target epitope by boiling the tissue sections in 10mM citrate buffer, pH 6.0, for 10 min followed by cooling at room temp for 20 min.



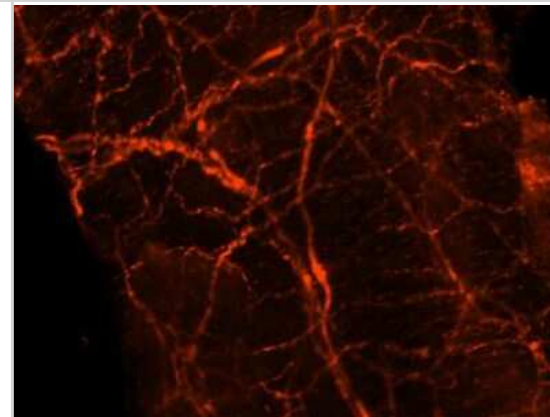
Flow Cytometry: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - Flow Cytometric Analysis of T98G cells using UCH-L1/PGP9.5 Antibody (31A3) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Western Blot: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - analysis of UchL1 in 1) human, 2) mouse and 3) rat brain lysate using UchL1 antibody at 1 ug/ml. goat anti-mouse Ig HRP secondary antibody and ECL substrate solution were used for this test.



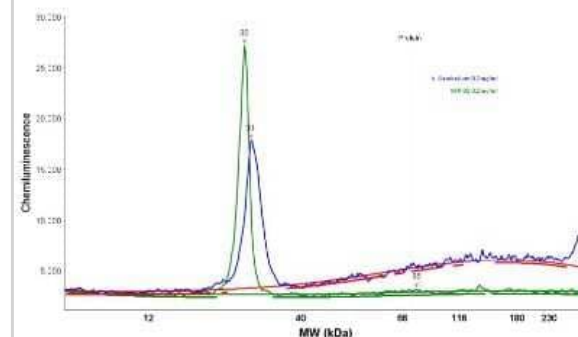
Immunocytochemistry/Immunofluorescence: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - analysis of PGP9.5 in rat mesenteric artery using anti-PGP9.5 antibody. Image from verified customer review.



Simple Western: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - Simple Western lane view shows a specific band for PGP9.5 / UCHL-1 in 0.2 mg/ml of h. Cerebellum (left) and IMR-32 (right) lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: UCH-L1/PGP9.5 Antibody (31A3) [NB600-1160] - Electropherogram images of the corresponding Simple Western lane. PGP9.5 / UCHL-1 antibody was used at 10 ug/ml dilution of h. Cerebellum and IMR-32 lysates(s) respectively.



## Publications

Lucarini E, Micheli L, Pagnotta E et al. The Efficacy of Camelina sativa Defatted Seed Meal against Colitis-Induced Persistent Visceral Hypersensitivity: The Relevance of PPAR alpha Receptor Activation in Pain Relief Nutrients 2022-07-29 [PMID: 35956313] (IHC-P, Rat)

### Details:

Dilution used 1:500

Manavis J, Blumbergs P, Jerrett I et al. Heterogeneous immunoreactivity of axonal spheroids in focal symmetrical encephalomalacia produced by Clostridium perfringens type D epsilon toxin in sheep Veterinary pathology 2021-12-06 [PMID: 34872408]

Sundaresan S, Meiningner C A et al. Gastrin Induces Nuclear Export and Proteasome Degradation of Menin in Enteric Glial Cells. Gastroenterology 2017-01-12 [PMID: 28859856] (IF/IHC, ICC/IF, Mouse)

Pal P, Hales K, Hales DB Increased Transient Receptor Potential Melastatin 8 Expression in the development of bladder pain in patients with Interstitial cystitis/Bladder Pain Syndrome Oncotarget 2020-10-10 [PMID: 33088425] (ICC/IF, Human)

Moutal A, Ji Y, Bellampalli SS, Khanna R Differential expression of Cdk5-phosphorylated CRMP2 following a spared nerve injury Mol Brain 2020-06-22 [PMID: 32571373] (IF/IHC, Rat)

Arnaboldi F, Sommariva M, Opizzi E et al. Expression of Toll-like receptors 4 and 7 in murine peripheral nervous system development Ann. Anat. 2020-05-04 [PMID: 32380196] (ICC/IF, Mouse)

Alberio L, Locarno A, Saponaro A et al. A light-gated potassium channel for sustained neuronal inhibition. Nat. Methods. 2018-11-01 [PMID: 30377377] (IF/IHC, Zebrafish)

Novakovic P, Harding JC, Al-Dissi AN et al. Pathologic Evaluation of Type 2 Porcine Reproductive and Respiratory Syndrome Virus Infection at the Maternal-Fetal Interface of Late Gestation Pregnant Gilts PLoS ONE 2016-03-11 [PMID: 26963101] (IF/IHC, WB, Human)

Bottner M, Zorenkov D, Hellwig I et al. Expression pattern and localization of alpha-synuclein in the human enteric nervous system. Neurobiol Dis. 2012-12-01 [PMID: 22850485] (IHC-Fr)

### Details:

IHC (frozen); Table I (colon carcinoma, dysplastic adenoma).

Read NC, Gutsol A, Holterman CE et al. Ubiquitin C-terminal hydrolase L1 deletion ameliorates glomerular injury in mice with ACTN4-associated focal segmental glomerulosclerosis. Biochim. Biophys. Acta 2014-03-22 [PMID: 24662305] (IHC-P, Mouse)

Gaunitz C, Gabert J, Lucker E et al. Suitability of antigens PGP 9.5 and neurofilament light as marker proteins for detection of neuronal tissue in processed meat products. J Food Prot. 2009-05-01 [PMID: 19517736]

### Details:

Sandwich ELISA (cow and pig meat). PGP9.5 antibodies from clones 13C4 and 31A3 were used to detect neuronal contaminant components in meat. Refer to the publication for additional details.

Day IN, Thompson RJ. UCHL1 (PGP 9.5): neuronal biomarker and ubiquitin system protein. Prog Neurobiol. 2010-03-01 [PMID: 19879917] (IHC-P)

### Details:

IHC (paraffin): Fig 2a,b (human brain). The distribution of PGP9.5 is extensively described in this review article, researchers are encouraged to consult this outstanding article for additional information.

More publications at <http://www.novusbio.com/NB600-1160>



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### **Products Related to NB600-1160**

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NBL1-17575	UCH-L1/PGP9.5 Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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